



**US Army Corps  
of Engineers**  
Engineer Research and  
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# News Release

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## **COLD REGIONS LAB RESEARCHERS ARE AWARDED PATENTS**

Dr. Norbert Yankielun, a research electrical engineer, and Leonard Zabilansky, a research civil engineer, with the U.S. Army Engineer Research and Development Center's Cold Regions Research and Engineering Laboratory (CRREL) in Hanover, N.H., have been awarded U.S. Patent #6,100,700, "Bridge scour detection and monitoring apparatus using time domain reflectometry."

Zabilansky, who currently is the New Hampshire Engineer of the Year, has been employed at CRREL since 1974. He is a co-inventor of three patents and is presently developing research programs in the area of scour around bridge piers and the engineering aspect of ice sheets.

Also, recently awarded was U.S. Patent #6,084,393, "Scour probe assembly," to sole inventor Yankielun. One of CRREL's more prolific inventors, Yankielun has been associated with the Laboratory for approximately 12 years. With these new patents, as the sole inventor or co-inventor, he has been awarded a total of 14 patents, with numerous others in process, that involve the application of electronics and electromagnetics to solve geophysical and environmental instrumentation, monitoring and measurement problems, especially related to military and civil cold regions challenges.

Yankielun and Zabilansky reside in Lebanon, N.H., and Perkinsville, Vt., respectively.

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